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Diagnostic performance of high resolution computed tomography in otosclerosis

Todd Kanzara, Jagdeep Singh Virk

Abstract

This study was conducted to determine the sensitivity and specificity of high resolution computed tomography (HRCT) in the diagnosis of otosclerosis. A systematic literature review was undertaken to include Level I-III studies (Oxford Centre for Evidenced based Medicine) that utilised HRCT to detect histology confirmed otosclerosis. Quantitative synthesis was then performed. Based on available level III literature, HRCT has a relatively low sensitivity of 58% (95% CI: 49.4-66.9), a high specificity, 95% (95% CI: 89.9-98.0) and a positive predictive value of 92% (95% CI: 84.1-95.8). HRCT is better at diagnosing the more prevalent fenestral form of otosclerosis

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